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CLIENT: PALRAM INDUSTRIES, LTD
Ramat Yohanan 30035
Israel
Amir Sade

Test Report No: 170558-7 Date: September 23, 2002

SAMPLE ID: The Client submitted and identified the following test materials as Paltuf/Palsun/Palsun Plus 3mm Flat Solid Polycarbonate sheets.

DATE OF RECEIPT: Entered into SGS USTC sample tracking system on August 13, 2002 as STN 35183.

TESTING PERIOD: August 29, 2002.

AUTHORIZATION: Client's Purchase Order No. 90354.

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-01, "Standard Method of Test for Surface Burning Characteristics of Building Materials". The foregoing test procedure is comparable to UL 723, ANSI/NFPA No. 255, and UBC No. 8-1.

TEST RESULTS: Flame Spread Smoke Density
60 <450*
For detailed results see page 3.

*See observations on page 3.

Tested by
Brian Ortega
Brian Ortega
Test Technician

Signed for and on behalf of
SGS U.S. Testing Company Inc.
Greg Banasky
Greg Banasky
Supervisor Fire Technology

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SGS U.S. Testing Company Inc.

Report No.: 170558-7
Date: September 23, 2002
Page: 2 of 4

CLIENT: PALRAM INDUSTRIES, LTD

PREPARATION AND CONDITIONING: The sample material was submitted in three pieces, 24" wide by 96" long, conforming to test chamber dimensions.

Prior to testing, the specimen was placed in the conditioning room (maintained at 73.4 ± 5° F and a relative humidity of 50 ± 5%) and allowed to reach moisture equilibrium.

SUMMARY OF ASTM E84 RESULTS: Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5.

<u>SAMPLE IDENTIFICATION</u>	<u>FLAME SPREAD</u>	<u>SMOKE DENSITY</u>
Paltuf/Palsun/Palsun Plus 3mm Flat Solid Polycarbonate sheets	60	<450*

*See observations on page 3.

In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

<u>NFPA CLASS</u>	<u>UBC CLASS</u>	<u>FLAME SPREAD</u>
A	I	0 through 25
B	II	26 through 75
C	III	76 through 200

BUILDING CODES CITED:

1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 1994 Edition.
2. Uniform Building Code, 1994 Edition, Chapter 8, Interior Finishes, Sections 801-807.



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US-D-OPS-04-03-T

CLIENT: PALRAM INDUSTRIES, LTD

Report No.: 170558-7
Date: September 23, 2002
Page: 3 of 4**E 84 TEST DATA SHEET:**CLIENT: Palram Industries, LTD. DATE: 8/29/02SAMPLE: Paltuf/Palsun/Palsun Plus 3mm Flat Solid Polycarbonate sheets.THICKNESS: 3mm nominal**FLAME SPREAD:**IGNITION: 1 minute, 27 secondsFLAME FRONT: 19.5 feet maximumTIME TO MAXIMUM SPREAD: 4 minutes, 38 secondsTEST DURATION: 4 minutes, 45 secondsCALCULATION: $4900 / (195 - 111.54) = 58.71$ **SUMMARY: FLAME SPREAD: 60 SMOKE DENSITY: <450***

OBSERVATIONS: Sample surface ignition occurred at 1 minute, 27 seconds. A maximum flame front advance of 19.5 feet was observed at 4 minutes, 38 seconds. Floor burning was noted commencing at 3 minutes.

* Due to intense flaming and smoke production, the test was terminated at 4 minutes, 45 seconds. Had the test continued for the normal 10 minute period, the Flame Spread would have remained the same. From the value obtained at the time of termination, it is deemed that the Smoke Density value would be less than 450.

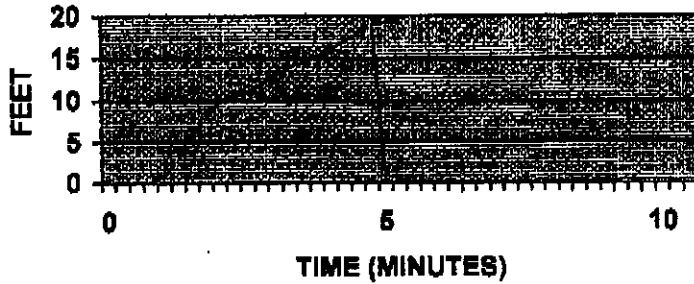


SGS U.S. Testing Company Inc.

Report No.: 170558-7
Date: September 23, 2002
Page: 4 of 4

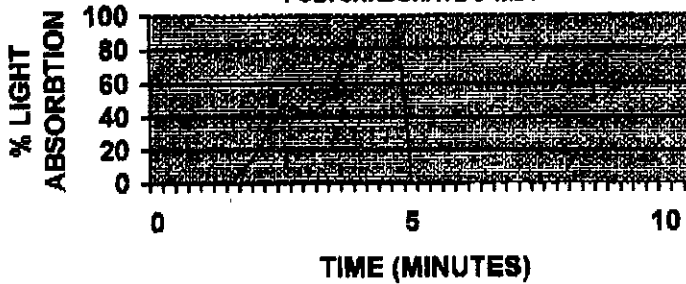
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FLAME SPREAD
PALTUF/PALSUN/PALSUN PLUS 3MM FLAT SOLID
POLYCARBONATE SHEET



— SAMPLE - - - RED OAK F. S. AREA

SMOKE DEVELOPED
PALTUF/PALSUN/PALSUN PLUS 3MM FLAT SOLID
POLYCARBONATE SHEET



— SAMPLE - - - RED OAK

End of Report

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